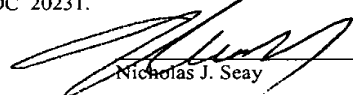


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Date of Signature and Deposit: January 21, 2003

  
Nicholas J. Seay

PATENT

(NE)  
# 12/B  
JMY  
2/5/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Kenneth J. Kasha  
Ecaterina Simion

Date: January 21, 2003

Serial Number: 09/460,324

Group Art Unit: 1661

Filed: 12/10/99

Examiner: Anne Marie Grunberg

Title: EMBRYOGENESIS AND PLANT  
REGENERATION FROM MICROSPORES

File No.: 411044.90021

**RECEIVED**

JAN 28 2003

TECH CENTER 1600/2900

AMENDMENT

Commissioner for Patents  
Washington, DC 20231

Sir:

In response to the Office Action of October 22, 2002, please amend the above identified application as follows.

In the Claims

Please cancel Claims 22-24 and 28-30 without prejudice or disclaimer.

Please amend Claims 1, 18, 31 and 32 and add new Claim 33 as follows:

- 
1. (Twice Amended) A method of producing an embryo comprising the steps of:
    - (a) harvesting a microspore-containing plant segment from a donor plant;
    - (b) incubating said segment under pre-treatment conditions, and at a temperature from about 3° C to about 6°C, to maintain from about 50% to about 100% of microspores at a uninucleate stage of development;
    - (c) isolating microspores from said segment; and
    - (d) incubating said isolated microspores in an induction medium comprising arabinogalactan protein, to induce embryogenesis, thereby producing embryos.
-



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PTO/SB/17 (1-03)

Approved for use through 10/31/2003, OMB 0651-0032

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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**FEE TRANSMITTAL  
for FY 2003**

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$ ) 0.00

**Complete if Known**

Application Number	09/460,324
Filing Date	12/10/1999
First Named Inventor	Kenneth J. Kasha
Examiner Name	Ann Marie Grunberg
Group Art Unit	1661
Attorney Docket No.	411044.90021

**METHOD OF PAYMENT (check all that apply)**☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number 17-0055

Deposit Account Name Quarles &amp; Brady LLP

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Credit any overpayments  
☒ Charge any additional fee(s) during the pendency of this application  
☐ Charge fee(s) indicated below, except for the filing fee to the above identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee	
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$ ) 0.00

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

	Extra Claims	Fee from below	Fee Paid
Total Claims	-20** =	X	= 0.00
Independent Claims	-3** =	X	= 0.00
Multiple Dependent			

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ ) 0.00

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2050 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexamination	
1804 920	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 750	2809 375	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR § 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 0.00

**SUBMITTED BY**

Name (Print/Type) Nicholas J. Seay

Registration No. (Attorney/Agent) 27,386

**Complete (if applicable)**

Telephone 608/251-5000

Signature

Date January 21, 2003

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